

Course Title: Algebra 1: Data and Patterns Around Us

Teacher: Grant Goettl

Hour 3 - Semester 1 - 2021/22

0.5 Math Credit

COURSE INFORMATION:

Click [here](#) to hear Grant talk about his class!

Course Description: Algebra 1 is a required course for graduation from MMSD. The main topics for this first semester are collecting and analyzing data. From the data we will look for patterns to solve problems and make predictions. In particular, we will explore linear patterns deeply and explore multiple ways to represent and solve those linear equations.

Prerequisites: none

Method of Instruction: This course will have both small-group investigations, lectures, and practice sheets to learn the material. During small group work, students may be asked to share their work with small poster presentations. Students will show their individual knowledge by completing traditional assessments or creating personalized alternatives.

Course Objectives (a few selected standards):

- **Quantities: Reason quantitatively and use units to solve problems**
- **Creating Equations: Create equations that describe numbers or relationships**
- **Reasoning with Equations and Inequalities: Understand solving equations as a process of reasoning and explain the reasoning**
- **Interpreting Functions: Analyze functions using different representations**
- **Linear, Quadratic, and Exponential Models: Interpret expressions for functions in terms of the situation they model**
- **Interpreting Categorical and Quantitative Data: Summarize, represent, and interpret data on a single count or measurement variable**

***Graduate Vision Competencies: Growth Mindset (Takes Personal Responsibility)
and Critical Thinker***